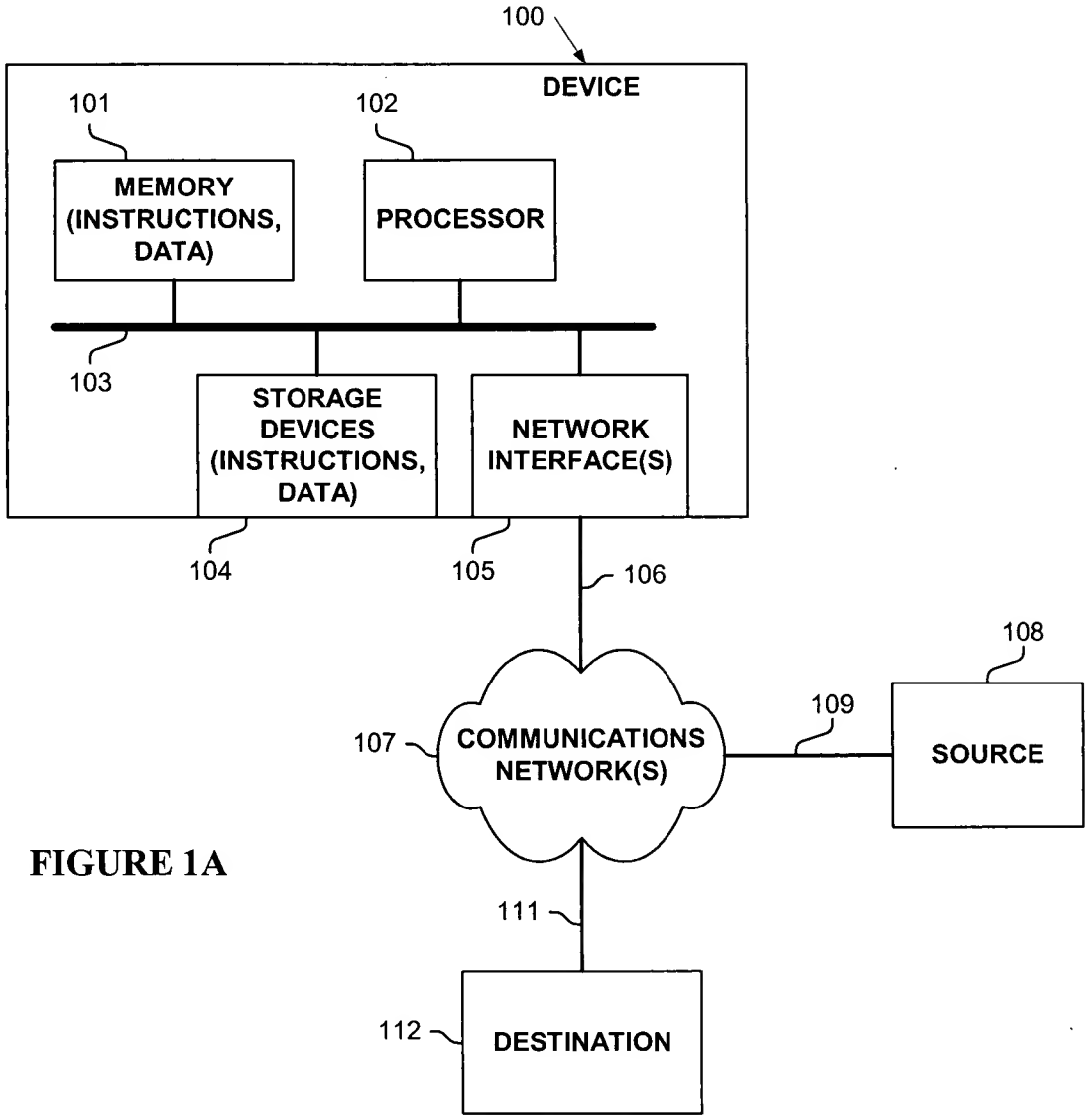


FIGURE 1A

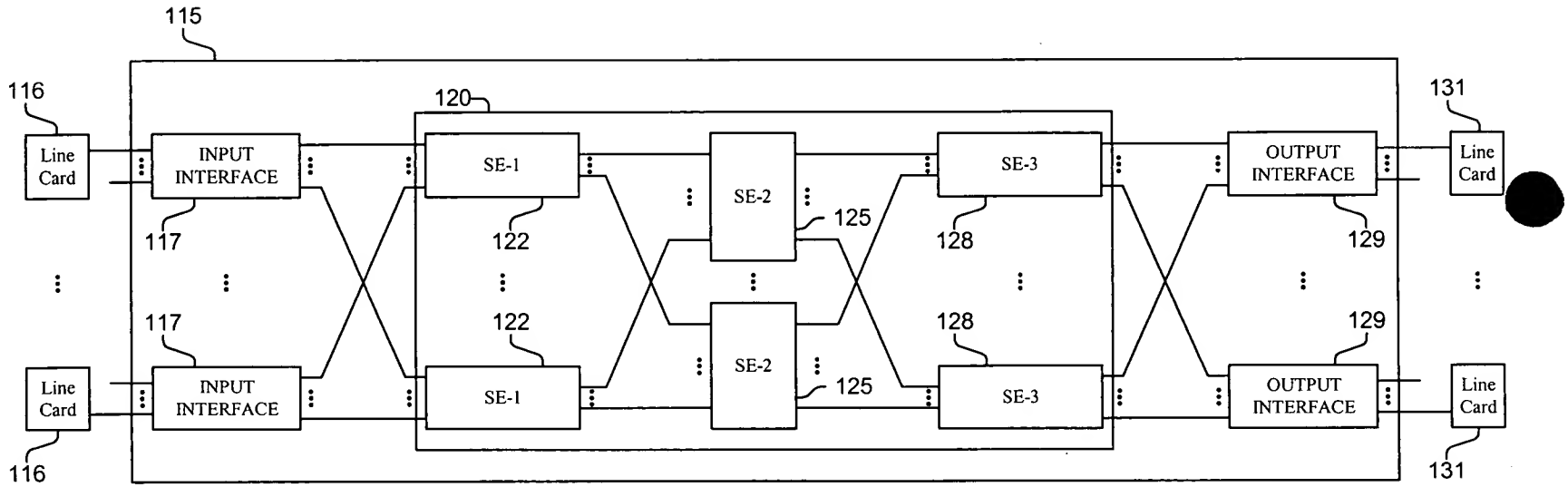

115
116
120
131
Line Card
INPUT INTERFACE
SE-1
SE-2
SE-3
OUTPUT INTERFACE
Line Card
117
122
125
128
129
Line Card
INPUT INTERFACE
SE-1
SE-2
SE-3
OUTPUT INTERFACE
Line Card
117
122
125
128
129
116
131

FIGURE 1B

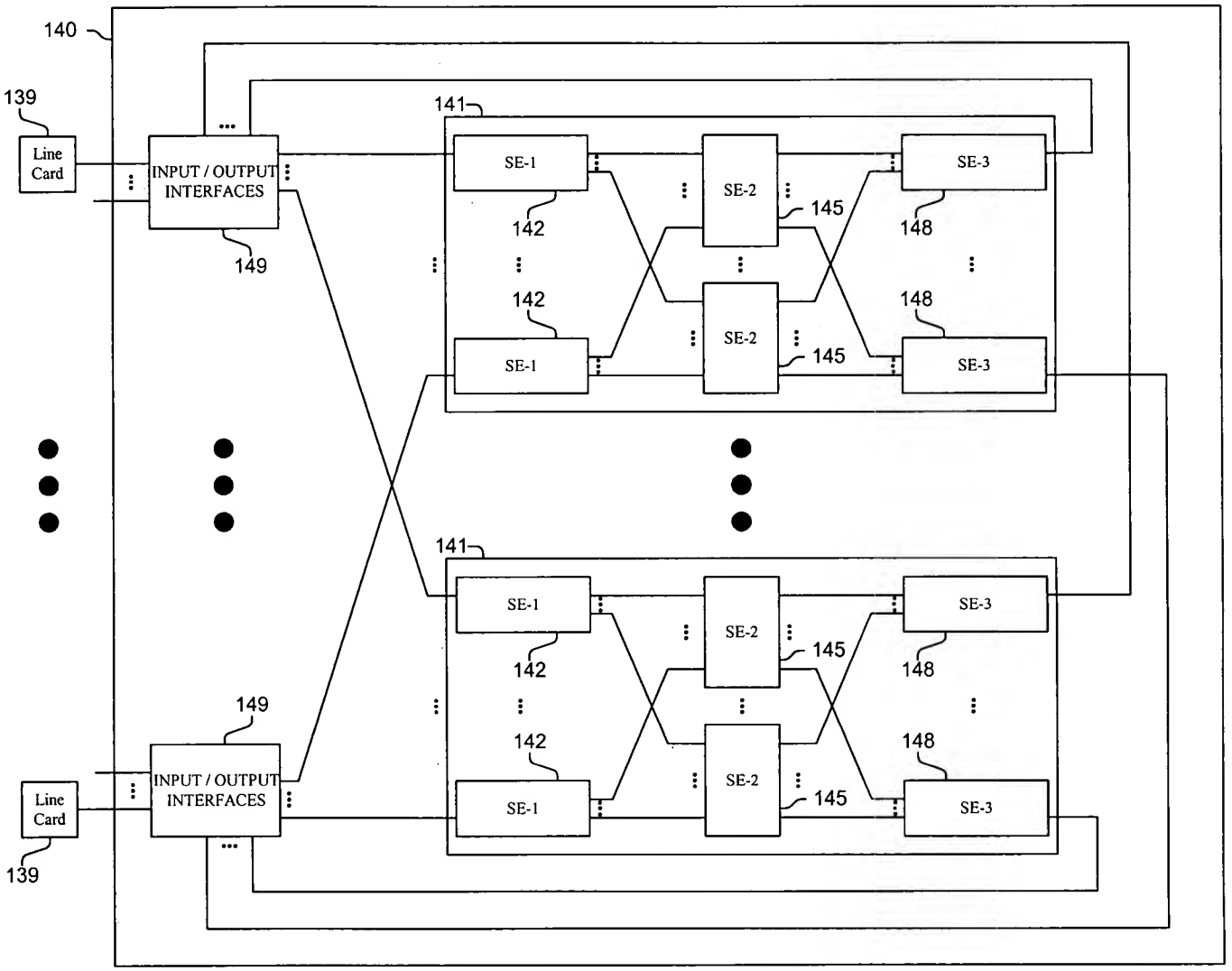

140
139
Line Card
INPUT / OUTPUT INTERFACES
149
141
SE-1
SE-2
SE-3
142
145
148
Line Card
139

FIGURE 1C

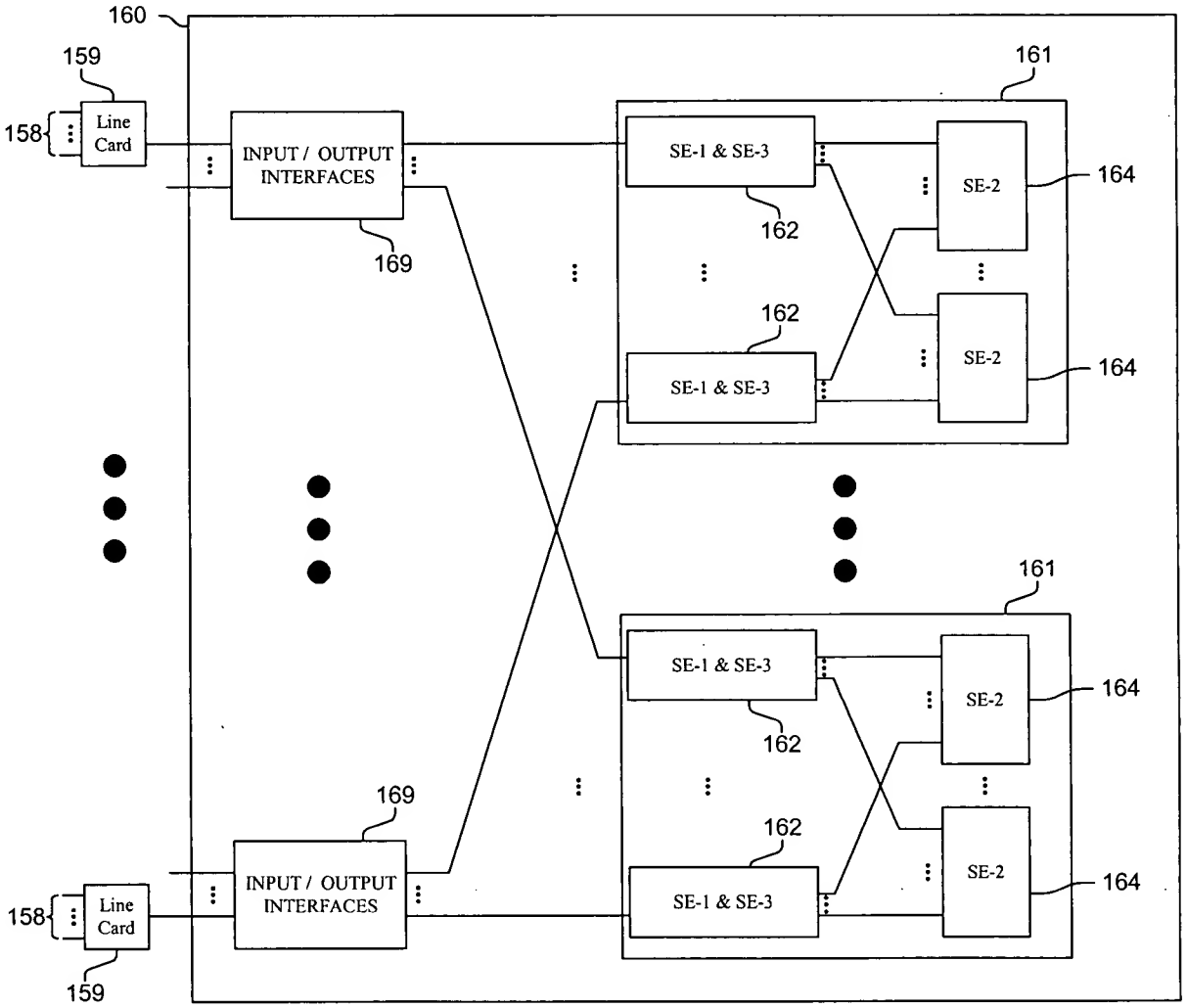


FIGURE 1D

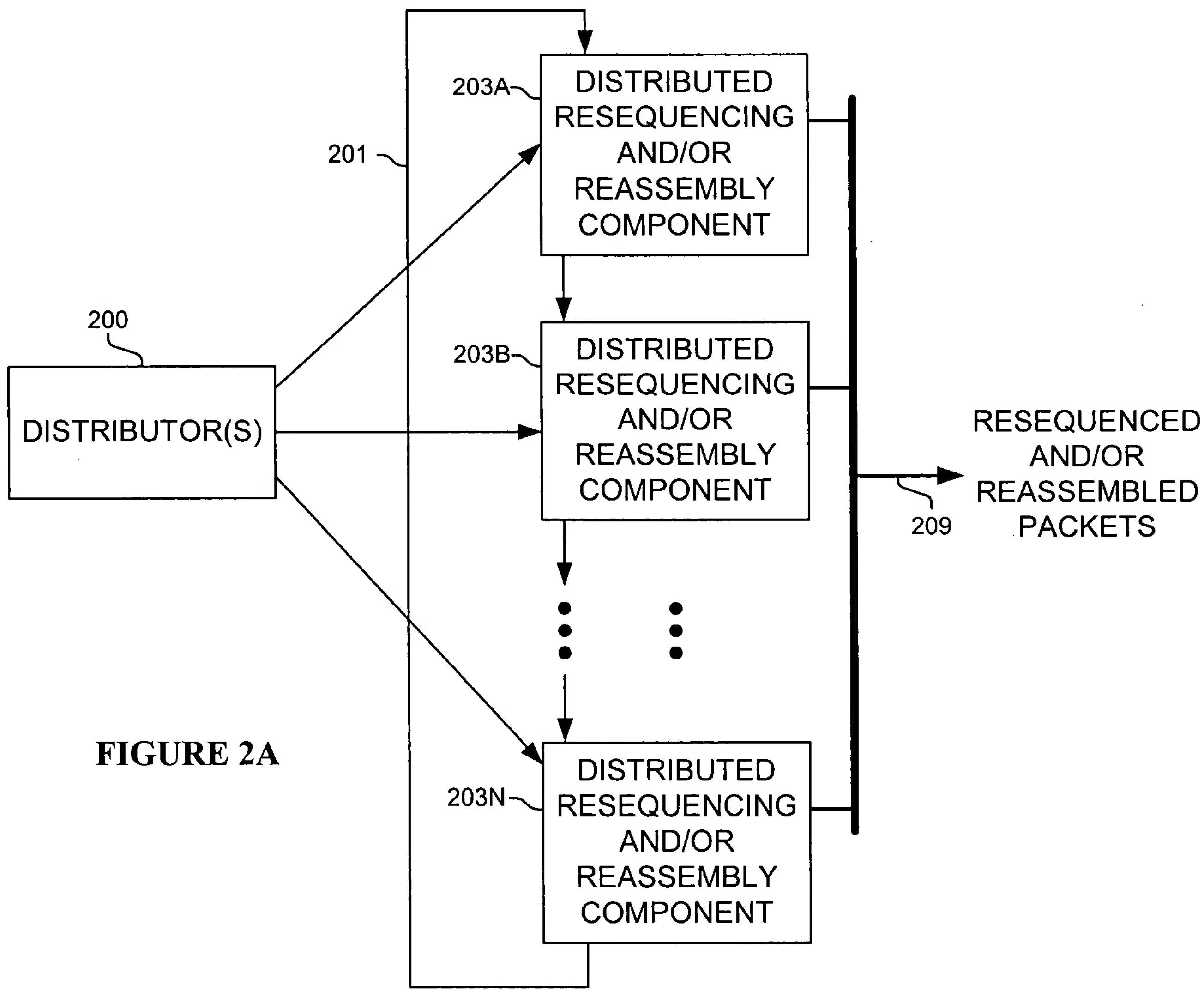

200
DISTRIBUTOR(S)
201
203A
DISTRIBUTED RESEQUENCING AND/OR REASSEMBLY COMPONENT
203B
DISTRIBUTED RESEQUENCING AND/OR REASSEMBLY COMPONENT
203N
DISTRIBUTED RESEQUENCING AND/OR REASSEMBLY COMPONENT
209
RESEQUENCED AND/OR REASSEMBLED PACKETS

FIGURE 2A

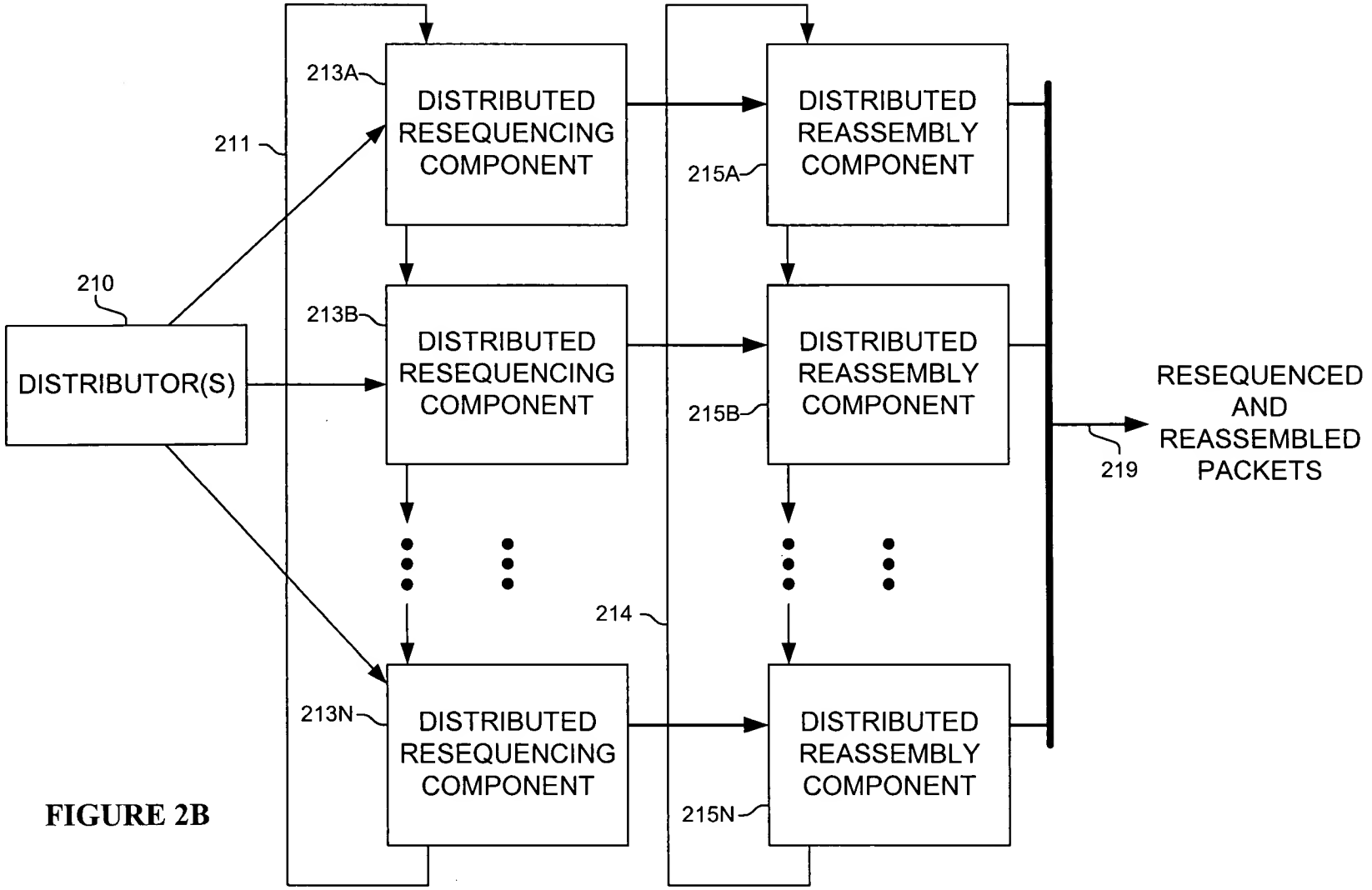

213A
DISTRIBUTED RESEQUENCING COMPONENT
211
215A
DISTRIBUTED REASSEMBLY COMPONENT
210
213B
DISTRIBUTED RESEQUENCING COMPONENT
DISTRIBUTOR(S)
215B
DISTRIBUTED REASSEMBLY COMPONENT
RESEQUENCED AND REASSEMBLED PACKETS
219
214
213N
DISTRIBUTED RESEQUENCING COMPONENT
215N
DISTRIBUTED REASSEMBLY COMPONENT

FIGURE 2B

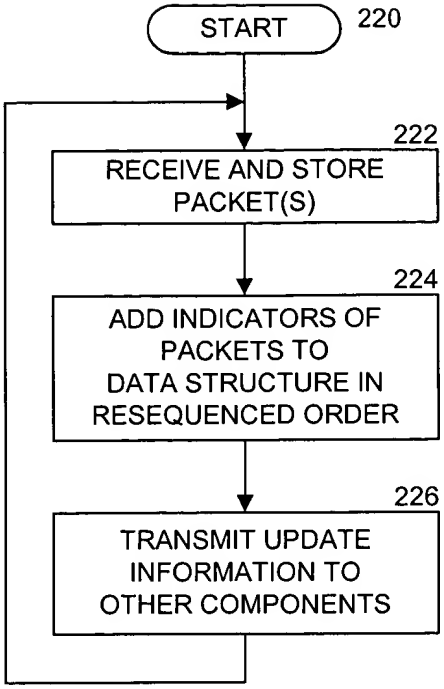


FIGURE 2C

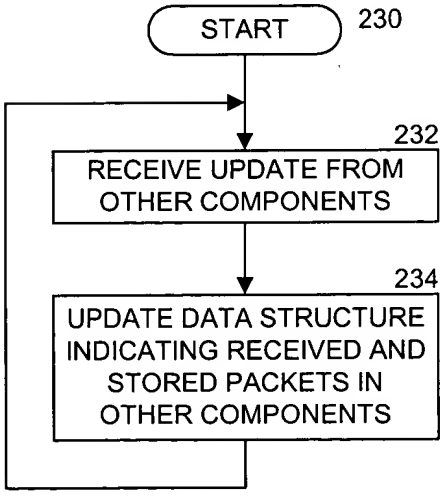


FIGURE 2D

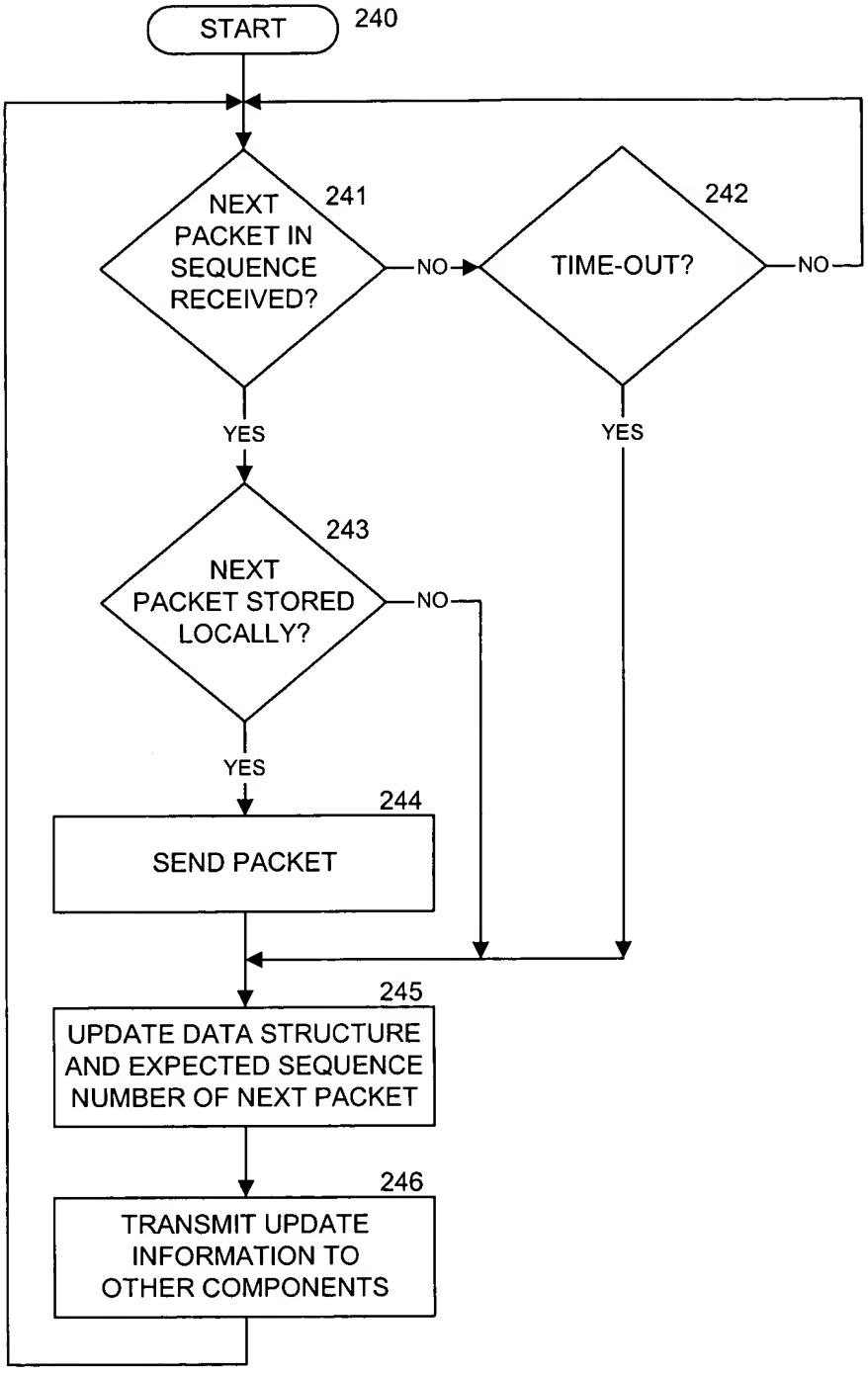

START
240
NEXT PACKET IN SEQUENCE RECEIVED?
241
NO
TIME-OUT?
242
NO
YES
YES
NEXT PACKET STORED LOCALLY?
243
NO
YES
SEND PACKET
244
UPDATE DATA STRUCTURE AND EXPECTED SEQUENCE NUMBER OF NEXT PACKET
245
TRANSMIT UPDATE INFORMATION TO OTHER COMPONENTS
246

FIGURE 2E

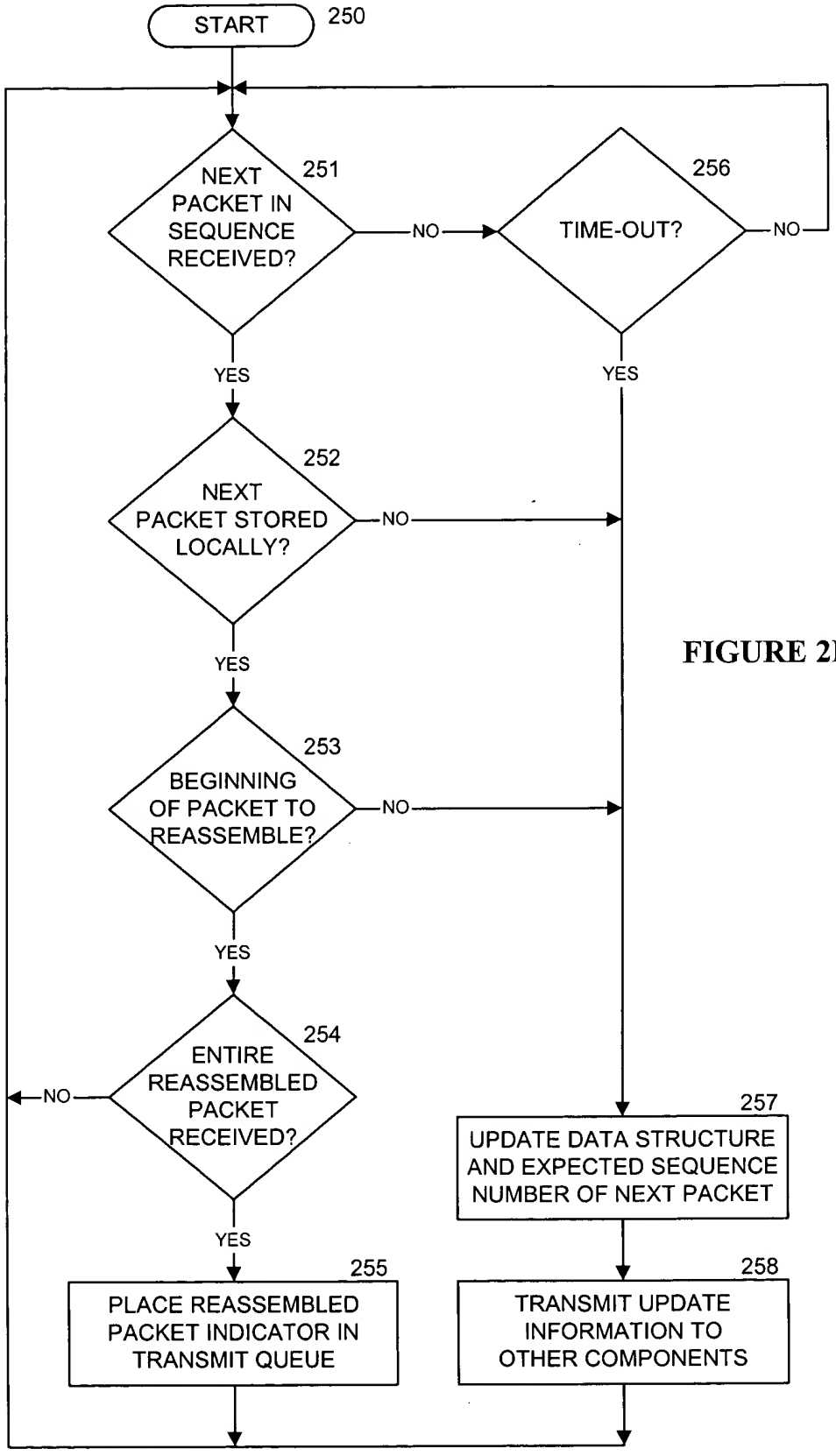

START
250
NEXT PACKET IN SEQUENCE RECEIVED?
251
NO
TIME-OUT?
256
NO
YES
YES
NEXT PACKET STORED LOCALLY?
252
NO
YES
BEGINNING OF PACKET TO REASSEMBLE?
253
NO
YES
ENTIRE REASSEMBLED PACKET RECEIVED?
254
NO
YES
UPDATE DATA STRUCTURE AND EXPECTED SEQUENCE NUMBER OF NEXT PACKET
257
PLACE REASSEMBLED PACKET INDICATOR IN TRANSMIT QUEUE
255
TRANSMIT UPDATE INFORMATION TO OTHER COMPONENTS
258

FIGURE 2F

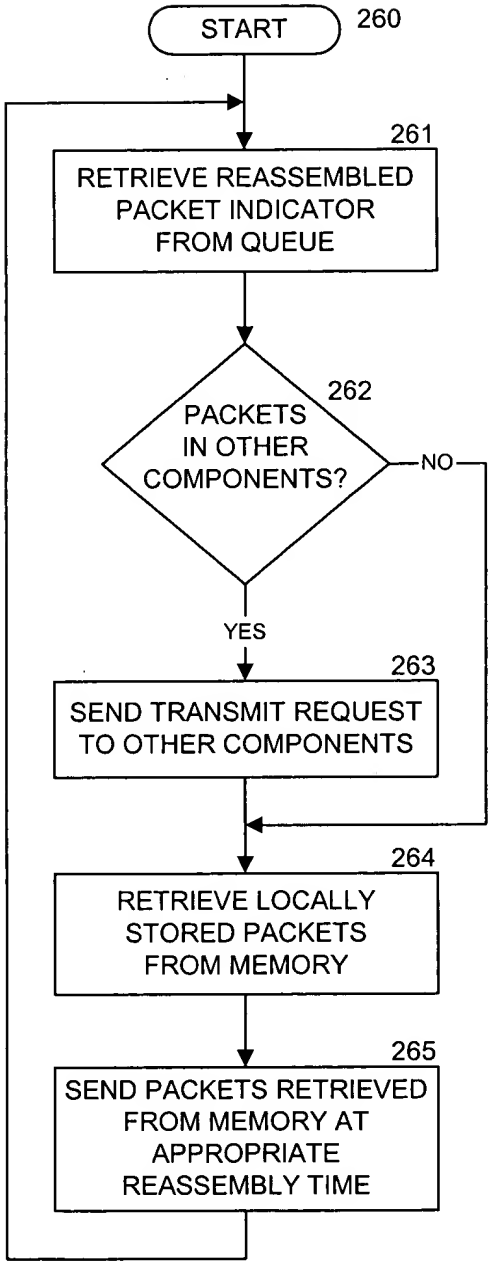

START
260
261
RETRIEVE REASSEMBLED PACKET INDICATOR FROM QUEUE
262
PACKETS IN OTHER COMPONENTS?
NO
YES
263
SEND TRANSMIT REQUEST TO OTHER COMPONENTS
264
RETRIEVE LOCALLY STORED PACKETS FROM MEMORY
265
SEND PACKETS RETRIEVED FROM MEMORY AT APPROPRIATE REASSEMBLY TIME

FIGURE 2G

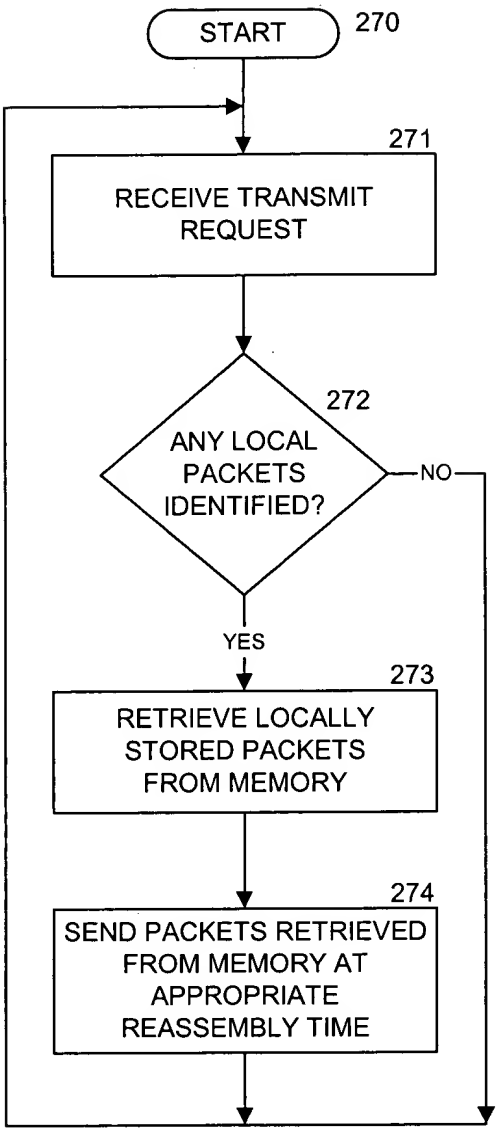

START
270
271
RECEIVE TRANSMIT REQUEST
272
ANY LOCAL PACKETS IDENTIFIED?
NO
YES
273
RETRIEVE LOCALLY STORED PACKETS FROM MEMORY
274
SEND PACKETS RETRIEVED FROM MEMORY AT APPROPRIATE REASSEMBLY TIME

FIGURE 2H

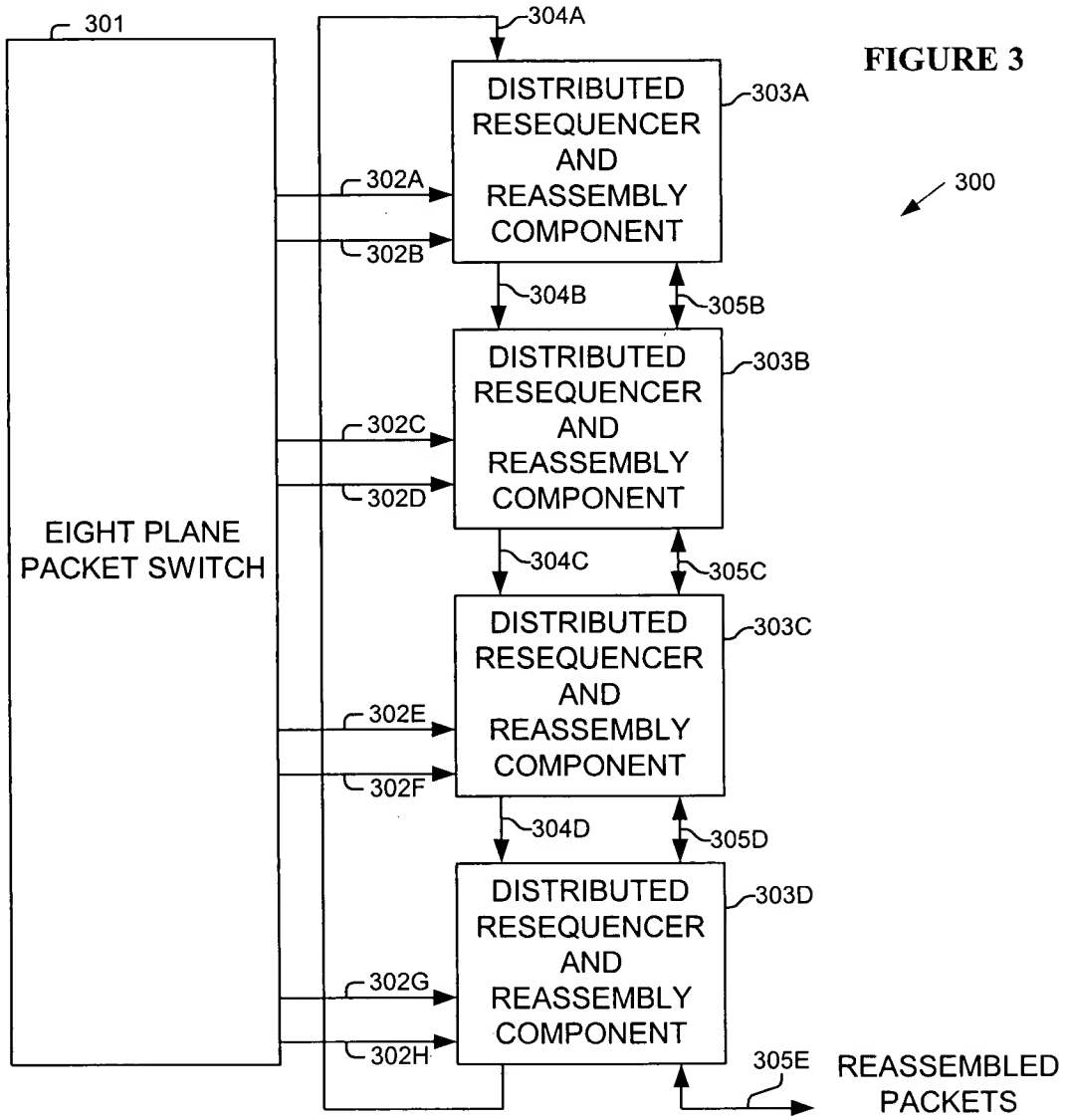

301
304A
DISTRIBUTED RESEQUENCER AND REASSEMBLY COMPONENT
303A
302A
302B
304B
305B
DISTRIBUTED RESEQUENCER AND REASSEMBLY COMPONENT
303B
302C
302D
EIGHT PLANE PACKET SWITCH
304C
305C
DISTRIBUTED RESEQUENCER AND REASSEMBLY COMPONENT
303C
302E
302F
304D
305D
DISTRIBUTED RESEQUENCER AND REASSEMBLY COMPONENT
303D
302G
302H
305E
REASSEMBLED PACKETS
300

FIGURE 3

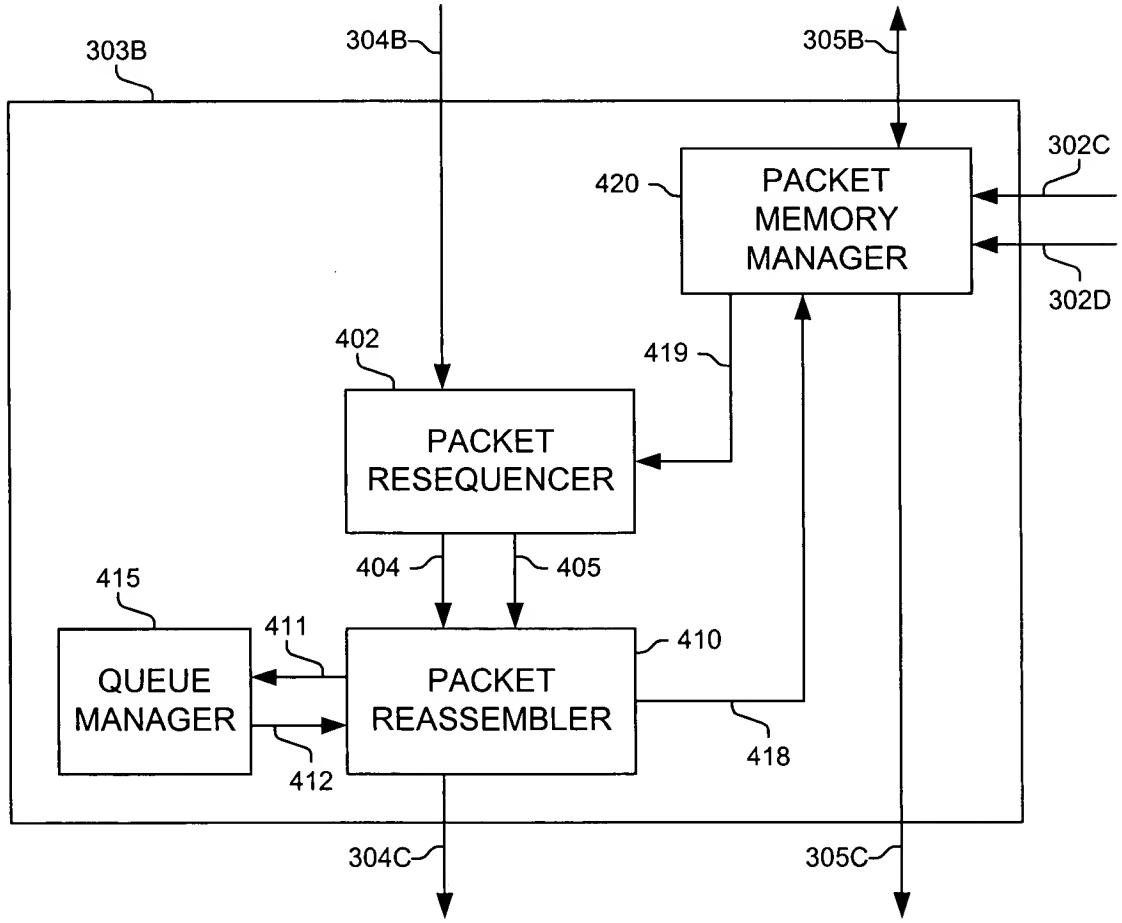

303B
304B
305B
302C
420
PACKET
MEMORY
MANAGER
302D
402
419
PACKET
RESEQUENCER
404
405
415
411
410
QUEUE
MANAGER
PACKET
REASSEMBLER
418
412
304C
305C

FIGURE 4A

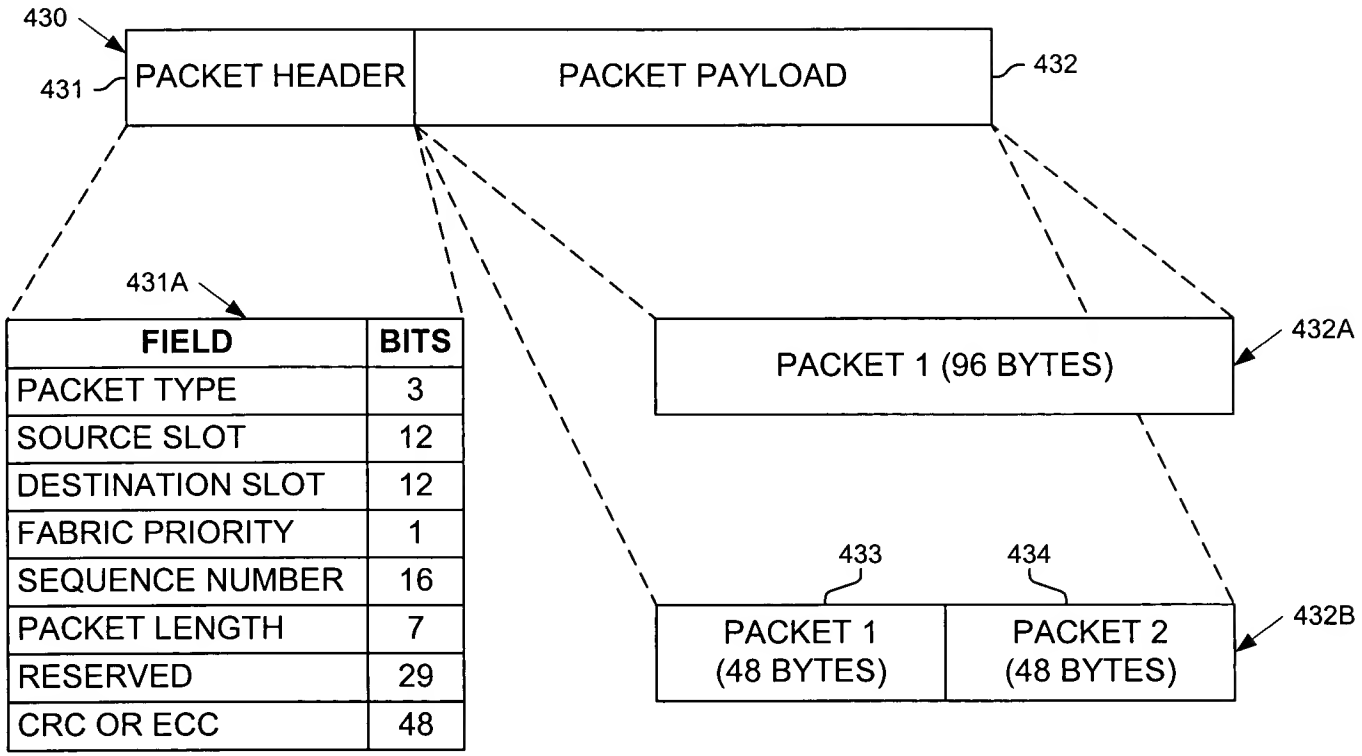
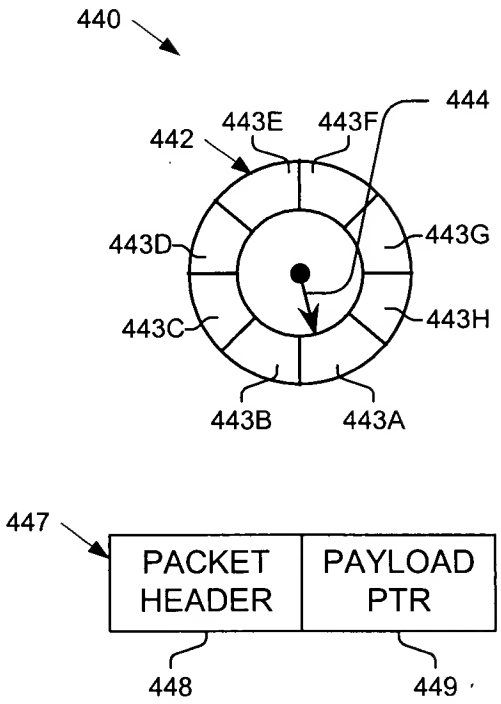
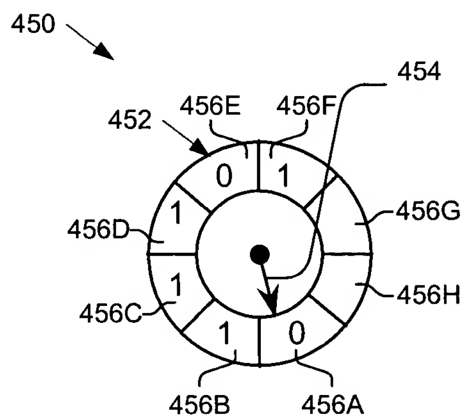

430
431
PACKET HEADER
PACKET PAYLOAD
432
431A
FIELD
BITS
PACKET TYPE
3
SOURCE SLOT
12
DESTINATION SLOT
12
FABRIC PRIORITY
1
SEQUENCE NUMBER
16
PACKET LENGTH
7
RESERVED
29
CRC OR ECC
48
PACKET 1 (96 BYTES)
432A
433
434
PACKET 1
(48 BYTES)
PACKET 2
(48 BYTES)
432B

FIGURE 4B



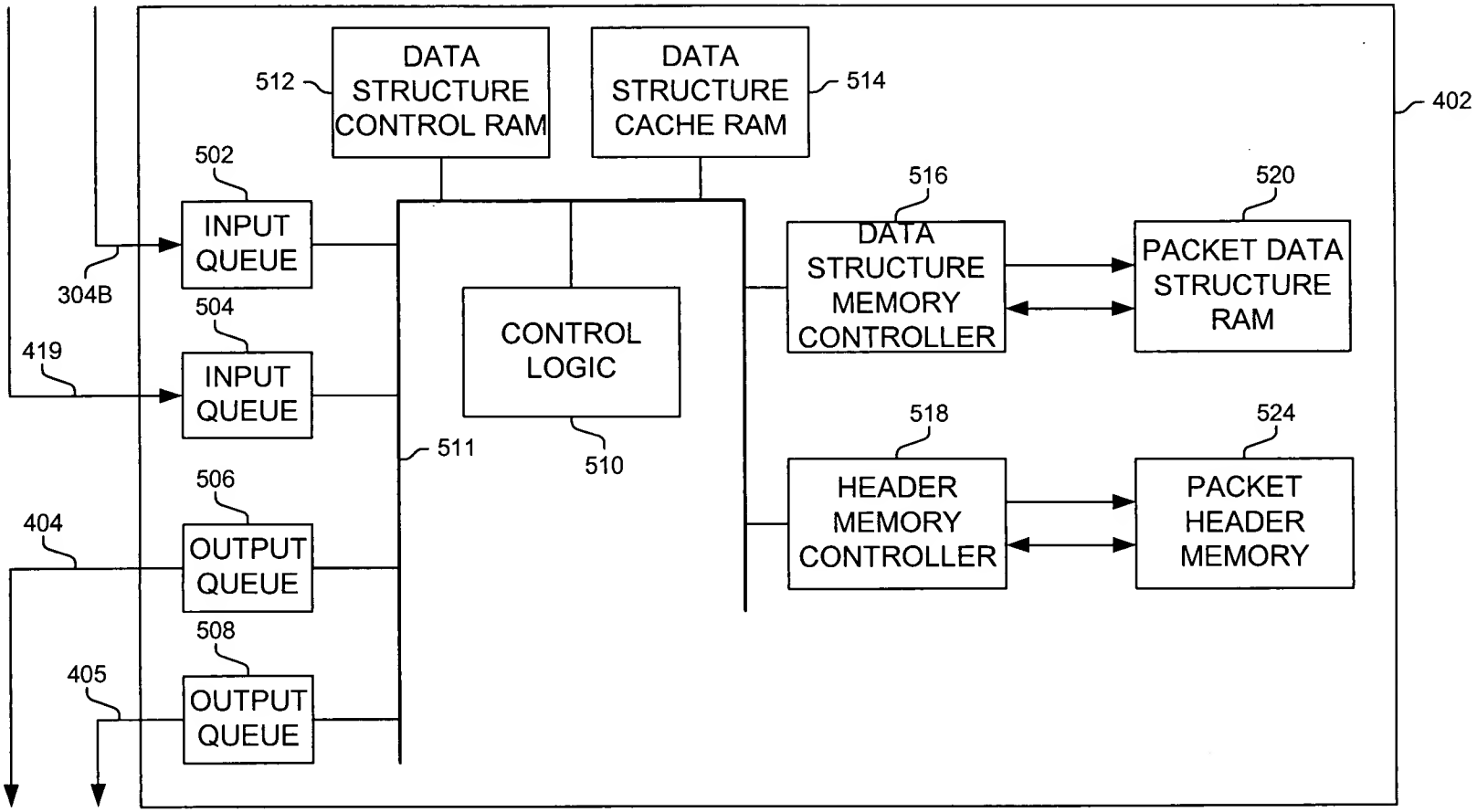
LOCAL DATA STRUCTURE

FIGURE 4C

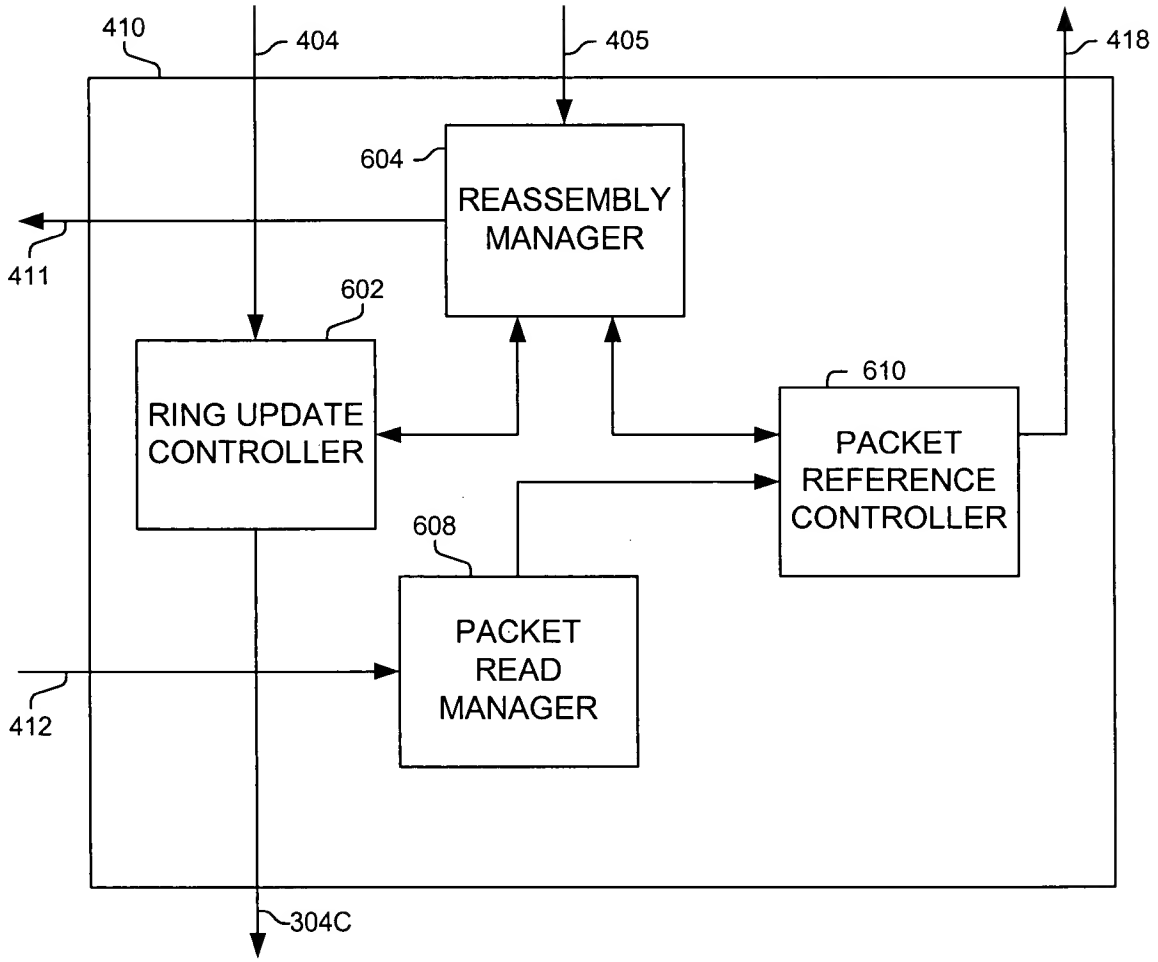


GLOBAL DATA STRUCTURE

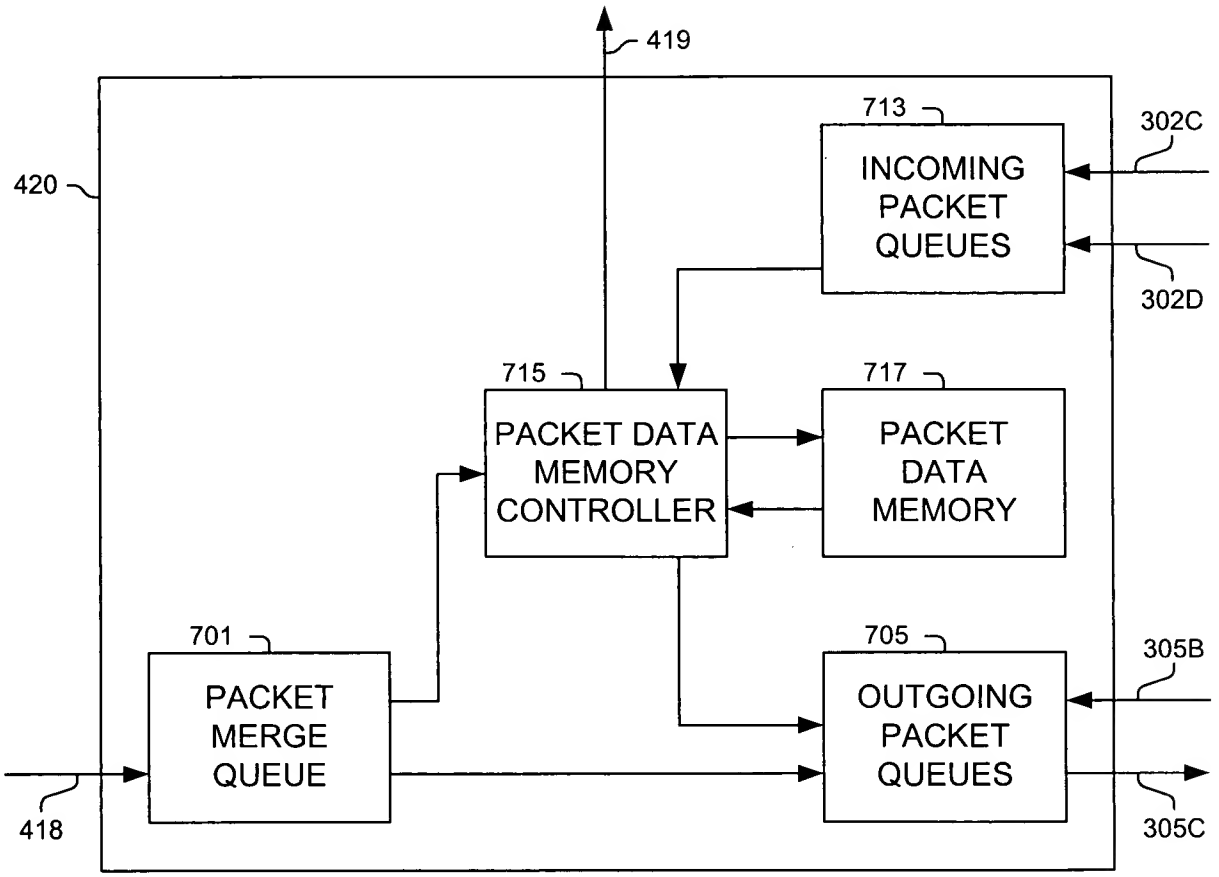
FIGURE 4D



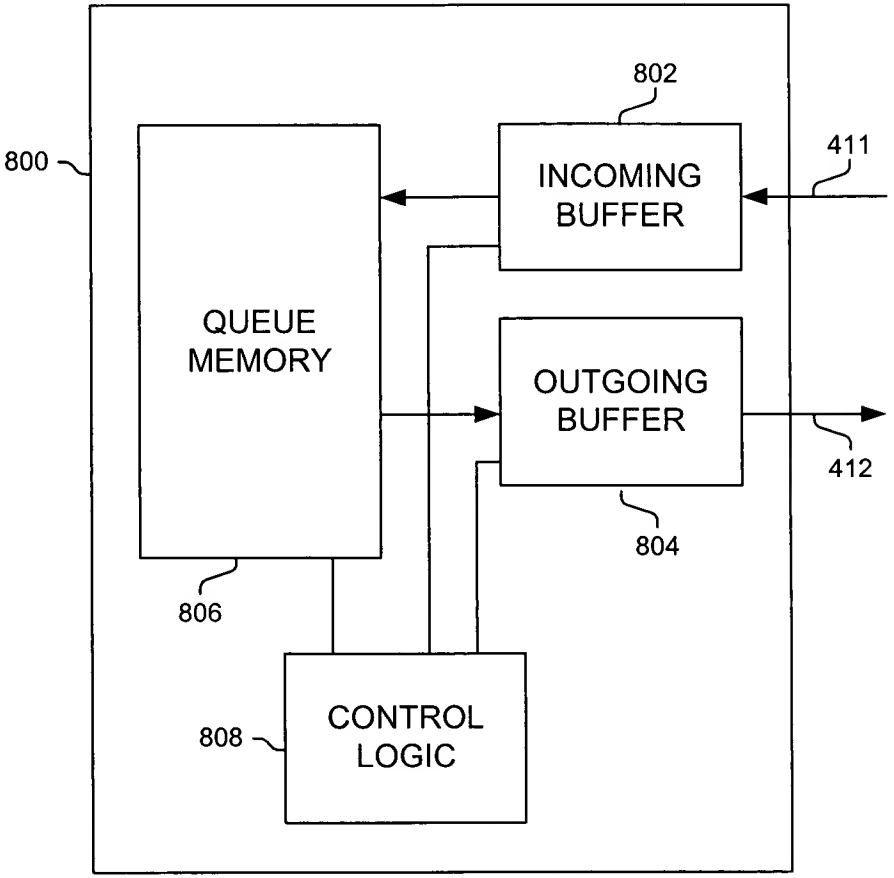
PACKET RESEQUENCER
FIGURE 5



PACKET REASSEMBLER
FIGURE 6



PACKET MEMORY MANAGER
FIGURE 7



QUEUE MANAGER
FIGURE 8